



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

***Surface Water Quality Bureau***

**Harold Runnels Building, N2050  
1190 South St. Francis Drive (87505)  
P.O. Box 5469, Santa Fe, NM 87502-5469  
Phone (505) 827-0187 Fax (505) 827-0160  
[www.nmenv.state.nm.us](http://www.nmenv.state.nm.us)**



RYAN FLYNN  
Cabinet Secretary

BUTCH TONGATE  
Deputy Secretary

ERIKA SCHWENDER  
Director  
Resource Protection Division

**Certified Mail - Return Receipt Requested**

April 27, 2016

Mr. Mark Fratrack  
Village Administrator  
Village of Taos Ski Valley  
P.O. Box 66  
Taos Ski Valley, NM 87525

**Re: Town of Taos Ski Valley Wastewater Treatment Plant; Major Municipal Permit; SIC4952;  
NPDES Compliance Evaluation Inspection; NM0022101; February 11, 2016**

Dear Mr. Fratrack:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Introduction, treatment scheme, and problems noted during this inspection are discussed in the "Further Explanations" section of the inspection report.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Racquel Douglas  
US Environmental Protection Agency, Region VI  
Enforcement Branch (6EN-WM)  
1445 Ross Avenue  
Dallas, Texas 75202-2733

Bruce Yurdin  
New Mexico Environment Department  
Surface Water Quality Bureau  
Point Source Regulation Section  
P.O. Box 5469  
Santa Fe, New Mexico 87502

Village of TSV Wastewater Treatment Plant

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If you have any questions about this inspection report, please contact Barbara Cooney at 505-827-0212 or at [barbara.cooney@state.nm.us](mailto:barbara.cooney@state.nm.us).

Sincerely,

*/S/ Bruce J. Yurdin*

Bruce J. Yurdin  
Program Manager  
Point Source Regulation Section  
Surface Water Quality Bureau

cc: Rashida Bowlin, USEPA (6EN-AS) by e-mail  
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail  
Racquel Douglas, USEPA (6EN-WM) by e-mail  
Brent Larsen, USEPA (6WQ-PP) by e-mail  
Gladys Gooden- Jackson, USEPA (6EN-WC) by e-mail  
Jan Walker, USEPA (6EN) by e-mail  
NMED District II, Robert Italiano by e-mail



Form Approved  
OMB No. 2040-0003  
Approval Expires 7-31-85

## NPDES Compliance Inspection Report

### Section A: National Data System Coding

Transaction Code			NPDES								yr/mo/day					Inspec. Type		Inspector		Fac Type									
1	N	2	5	3	N	M	0	0	2	2	1	0	1	11	12	1	6	0	2	1	1	17	18	C	19	S	20	1	
Remarks																													
M A J O R M U N I C I P A L																													
Inspection Work Days								Facility Evaluation Rating								BI		QA		Reserved									
67			1	69	70	4	71	N	72	N	73			74	75														80

### Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) TAOS SKI VALLEY WASTEWATER TREATMENT PLANT P. O. BOX 66 TAOS SKI VALLEY, NEW MEXICO 87525 Directions: To the Utilities Office - From The Town of Taos take Paseo Del Pueblo Norte (US-64) North 4 miles—Turn Right on NM-150 go aprox 14.5 miles-- Bear Right on Thunderbird Rd. go aprox 0.1 miles --- Brown Wood Siding 2 story Bldg on Left (7 Firehouse Rd) --- go up stairs to office.		Entry Time /Date 12:09 Hours / February 11, 2016		Permit Effective Date 01 October 2011	
		Exit Time/Date 15:40 Hours / February 11, 2016		Permit Expiration Date 30 September 2016	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) RAY KEEN, OPERATIONS MANAGER 575-770-2351 JOE APODOCA, PLANT OPERATOR 575- 776-8846				Other Facility Data  SIC 4952  Latitude 36.59584000  Longitude -105.45556000	
Name, Address of Responsible Official/Title/Phone and Fax Number MARK FRATRICK , VILLAGE ADMINISTRATOR VILLAGE OF TAOS SKI VALLEY P. O. BOX 66 TAOS SKI VALLEY, NEW MEXICO 87525 (575)776-8220 ext. 1					
Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

### Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	M	Flow Measurement	S	Operations & Maintenance	M	CSO/SSO
S	Records/Reports	S	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
M	Effluent/Receiving Waters	S	Laboratory	N	Storm Water		Other:

### Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

SEE THE FURTHER EXPLANATIONS SECTION OF THE ATTACHED REPORT

Name(s) and Signature(s) of Inspector(s) /S/ Barbara Cooney	Agency/Office/Telephone/Fax NMED/SWQB 505-827-0212 / 505-827-0160	Date 4/27/2016
Signature of Management QA Reviewer /S/ Jennifer Foote	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-0187 / 505-827-0160	Date 4/27/2016

	PERMIT NO. NM0022101
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> )	
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE Need to update the signatory New town manager <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
4. ALL DISCHARGES ARE PERMITTED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION B - RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED YES_)	
DETAILS	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
b) NAME OF INDIVIDUAL PERFORMING SAMPLING <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
c) ANALYTICAL METHODS AND TECHNIQUES. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
d) RESULTS OF ANALYSES AND CALIBRATIONS. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
e) DATES AND TIMES OF ANALYSES. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
f) NAME OF PERSON(S) PERFORMING ANALYSES. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION C - OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED YES_)	
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
2. TREATMENT UNITS PROPERLY MAINTAINED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. ALL NEEDED TREATMENT UNITS IN SERVICE. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED. <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	

	PERMIT NO. NM0022101
SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
SECTION D - SELF-MONITORING	
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. DETAILS:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> ).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
b) PROPER PRESERVATION TECHNIQUES USED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
SECTION E - FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. DETAILS:	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE <u>Square Weir Box With 45 degree V notch.</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION <u>2014</u> ) RECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
6. HEAD MEASURED AT PROPER LOCATION.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
SECTION F – LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. DETAILS:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>YES</u> )
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	PERMIT NO. NM0022101

						PERMIT NO. NM0022101	
SECTION F - LABORATORY (CONT'D)							
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. QUALITY CONTROL PROCEDURES ADEQUATE.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. DUPLICATE SAMPLES ARE ANALYZED. <u>10</u> % OF THE TIME.						<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
6. SPIKED SAMPLES ARE ANALYZED. <u>   </u> % OF THE TIME.   Yearly - as part of the DMR QA study						<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
7. COMMERCIAL LABORATORY USED.						<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
LAB NAME		Bio-aquatics		Hall Laboratory			
LAB ADDRESS		Carlton, TX		Albuquerque, NM			
PARAMETERS PERFORMED		Bio Monitoring		Phosphorous, Total Nitrogen & Ammonia			
SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED YES_).							
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	none	none	none	none	none	clear	
RECEIVING WATER OBSERVATIONS – Sanitary sewer overflow June 15, 2015.							
SECTION H - SLUDGE DISPOSAL							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. DETAILS:				<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>NO</u> ).			
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503.						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: <u>Surface Disposal at Taos County Landfill</u>						(e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)	
SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED <u>YES</u> ).							
1. SAMPLES OBTAINED THIS INSPECTION.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
2. TYPE OF SAMPLE OBTAINED GRAB _____ COMPOSITE SAMPLE _____ METHOD _____ FREQUENCY _____							
3. SAMPLES PRESERVED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
4. FLOW PROPORTIONED SAMPLES OBTAINED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
7. SAMPLE SPLIT WITH PERMITTEE.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	

Village of Taos Ski Valley  
Wastewater Treatment Plant  
Compliance Evaluation Inspection  
NPDES Permit Number NM0022101  
11 February 2016  
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### **Introduction**

On February 11, 2016 a Compliance Evaluation Inspection (CEI) was conducted at the Village of Taos Ski Valley Wastewater Treatment Plant (WWTP) NM0022101 by Barbara Cooney and Jennifer Foote of the State of New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB). The inspection was conducted by NMED for the US Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the federal Clean Water Act. These inspections are conducted under contract with the USEPA and are used by EPA to evaluate compliance with the NPDES permit program. This inspection report is based on information supplied by the Village of Taos Ski Valley representatives (the permittee), observations made by the NMED inspector, reports and records kept by the permittee and/or NMED.

Findings of the inspection are detailed on the attached EPA form 3560-3 and in the narrative Further Explanations section of this report. The Village of Taos Ski Valley WWTP is classified as a major municipal discharger, with a design flow of 0.167 MGD and with tertiary treatment. The facility discharges treated effluent directly to the Rio Hondo in Water Quality Segment 20.6.4.129. The designated uses for the receiving stream are domestic water supply, high quality coldwater aquatic life, irrigation, livestock watering, wildlife habitat, and primary contact.

### **Inspection Details**

The NMED inspectors arrived at the Village of Taos Ski Valley WWTP at 12:09 hours. Lead inspector Barbara Cooney showed credentials and explained the purpose of the inspection to Mr. Ray Keen, Utilities Director. Mr. Joey Apodaca, Operator also joined NMED as they conducted the inspection. Following the inspection an exit interview was held at the facility office with Mr. Keen and Mr. Apodaca. The Inspector left the Village at 15:40 hours.

### **Treatment Scheme**

Wastewater entering the Taos Ski Valley WWTP is a combination of domestic, hotel and restaurant waste that flows by gravity through the collection system consisting of eight inch diameter piping. The collection system is subject to high infiltration and inflow (I&I), of up to 15,000 gallons per day. Ground water is especially high during spring runoff. Wastewater enters the headworks where an influent Parshall flume and wooden yard stick serves as the staff gauge to measure influent volumes. A grit removal system with a screw pump and bagging system are on line. The grit is taken to the Taos County landfill after passing the paint filter test for final disposal. Following the headworks, untreated sewage is sent to the two equalization basins used to control flow rates as the water is sent to the next treatment units. One tank is constructed of concrete with a hydraulic capacity of 135,000 gallons. The second tank is constructed of steel with a capacity of 250,000 gallons. Both are in-ground and covered with dome tops.

A substantial freeboard is maintained in the tanks to ensure they can adequately handle any excessive I&I during spring and summer months. Diffused aeration helps alleviate the growth of filamentous bacteria in the equalization basins, also preventing the raw sewage from becoming septic and aiding in reduced odors. Solids from the Anoxic selector, backwash from the pressure filters, and liquids from the sludge dewatering process are returned to the equalization basins. Wastewater then enters the main treatment building. Influent flow is controlled by a "pinch" valve used to maintain a constant flow volume to the aeration basins. This facility has four 25 thousand gallon aeration basins operating in series. Coagulant, Polyaluminum Chloride or (PAC) is added to the first basin, to aid in the precipitation and removal of phosphorous. Also introduced into the first basin is Soda Ash, to normalize the pH. Influent pH is adjusted to near 7.0 s.u. for optimum treatments. A continuous readout pH

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meter is used to control the soda ash feed. The feed tanks for the Polyaluminum Chloride and Soda Ash, are located above the four basins.

From the aeration basins, wastewater passes through a splitter box into one of two secondary circular, cone shaped clarifiers where settling of the activated sludge takes place. Return activated sludge (RAS) is directed to the first aeration basin. Floating materials are moved into a scum pit using a scum sweep arm. Contents of the scum pit are pumped to the sludge storage tanks.

Wastewater from the clarifiers is pumped to two pressure polishing filters which run parallel. These are varying head filters and are backwashed at 10 psi differential. Filter media in both of these units consists of anthracite coal and sand. The filters are backwashed every day. The backwash water is sent up to the EQ basins and mixed with the influent wastewater. Each of these units can be bypassed individually whenever maintenance is needed. After the polishing filters, treated water passes through two ultraviolet disinfection units run in series. Each unit consists of eight bulbs emitting ultraviolet light. The units are attached to a control panel which indicates if a bulb has burned out. There is also an opacity meter to determine when the bulbs need to be cleaned. The bulbs are cleaned by agitating with a weak citric acid solution. Operators also use the records of E coli bacteria concentrations as indicators of need cleaning or replacement of bulbs.

Each unit can be cleaned individually so disinfection remains continuous. Disinfection detention time in these units is approximately seven minutes. Effluent water then enters a flow measuring unit consisting of a square weir box which includes a 45° V-notch weir with a staff gauge. The staff gauge, affixed to the side of the square weir box was not easily visible. A secondary ultrasonic flow measuring device is used for reporting purposes. The ultrasonic flow meter gives both an instant flow and totalized flow reading. Effluent samples are collected at this point by a Hach composite sampler. Samples are collected as required in the NPDES permit. The sampler is programed to maintain a temperature of 4° C in the refrigerator where the samples are stored. The permit requires that the samples be kept at no higher than 4° C. From the effluent sampling location the flow is discharged to the Rio Hondo.

### **Sludge**

Sludge at this facility is stored in two storage tanks located on the hillside behind the treatment building. The tanks accept sludge from both secondary clarifiers. Supernatant is decanted off and re-circulated back to the flow equalization basin for reentry into the treatment building for additional treatment. Solids are pulled out of the storage tanks into a sludge centrifugal dewatering system that produces 20% solids. The pressed solids go up a conveyor belt and are dropped into a tip-off. The tip-off is located in a bunker area that is a sloped cement pad with an under drain. Water entering the drain in the bunker is returned to the EQ basin. Final disposal of the sludge is at the Taos County Land fill.

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**Further Explanations**

Note: The sections are arranged according to the format of EPA form 3560-3 and checklist, attached, rather than being ranked in order of importance

**Permit Verification**

Overall Rating For Permit Verification (Satisfactory)

**Record Keeping & Reporting**

Overall Rating For Record Keeping and Reporting (Satisfactory)

**Findings for Recordkeeping & Reporting**

Records were reviewed for November 2015 including daily logs, and onsite sampling records, and laboratory reports from Hall Environmental for Biochemical Oxygen Demand (BOD), Nitrogen Ammonia, Total Kjeldahl Nitrogen (TKN), and Total Phosphorous. Chain of custody was followed and records appear to meet the permit requirements for completeness and for timely submittal to the regulatory authority.

**Effluent /Receiving Waters**

Overall Rating For Effluent/Receiving Waters (Marginal)

**Permit Requirements for Effluent / Receiving Waters**

**The permit requires in Part I.**

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		Standard Units			
POLLUTANT	STORET CODE	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	00400	6.6	8.8	Three/Week	Grab

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		Standard Units			
POLLUTANT	STORET CODE	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	00400	6.6	8.8	Three/Week	Grab

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
		lbs/day, unless noted			mg/L, unless noted (*1)				
POLLUTANT	STORET CODE	30-DAY AVG	DAILY MAX	7-DAY AVG	30-DAY AVG	DAILY MAX	7-DAY AVG	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	50050	Report MGD	Report MGD	Report MGD	N/A	N/A	N/A	Daily	Totalizing Meter
Biochemical Oxygen Demand, 5-day	00310								
November 1- April 30		23.8	N/A	35.7	30	N/A	45	Twice/Month (*2)	Grab
May 1 - October 31		23.8	N/A	35.7	30	N/A	45	Once/Month	Grab
Total Suspended Solids	00530								
November 1- April 30		23.8	N/A	35.7	30	N/A	45	Twice/Month (*2)	Grab
May 1 - October 31		23.8	N/A	35.7	30	N/A	45	Once/Month	Grab
<i>E. coli</i> Bacteria	51040	N/A	N/A	N/A	126 (*3)	235 (*3)	N/A	Twice/Month (*2)	Grab
Fecal Coliform Bacteria	74055	N/A	N/A	N/A	200 (*3)	400 (*3)	N/A	Twice/Month (*2)	Grab
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	19 µg/l	N/A	Daily	Instantaneous Grab (*4)

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Ammonia-Nitrogen November 1- April 30 May 1 - October 31	00610	5.34 5.34	N/A N/A	5.34 5.34	3.2 3.2	N/A N/A	3.2 3.2	Twice/Month (*2) Once/Month	6-Hour Composite 6-Hour Composite
Total Nitrogen (*5) November 1- April 30 May 1 - June 30 July 1 - August 31 September 1 - October 31	00600	13.65 46.55 27.7 21.1	N/A N/A N/A N/A	20.5 68.8 41.6 31.7	8.2 27.9 16.6 12.7	N/A N/A N/A N/A	12.3 41.2 24.9 19	Once/Week Once/Month Once/Month Once/Month	6-Hour Composite 6-Hour Composite 6-Hour Composite 6-Hour Composite
Total Phosphorus November 1- April 30 May 1 - June 30 July 1 - August 31 September 1 - October 31	00665	0.8 1.6 1.2 0.8	N/A N/A N/A N/A	1.2 2.4 1.8 1.2	0.5 1.0 1.5 2.5	N/A N/A N/A N/A	0.75 1.5 2.25 3.75	Twice/Month (*2) Once/Month Once/Month Once/Month	6-Hour Composite 6-Hour Composite 6-Hour Composite 6-Hour Composite

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (*6) (48-Hour Static Renewal)	30-DAY AVG MINIMUM	48-HR MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
<i>Daphnia pulex</i>	Report	Report	1/12 months (*7)	24-Hr Composite
<i>Pimephales promelas</i>	Report	Report	1/12 months (*7)	24-Hr Composite

*Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit prior to the receiving stream.*

The permit requires in Part II.D.

**OVERFLOW REPORTING**

*The permittee shall report all overflows with the DMR submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: date, time, duration, location, estimated volume, and cause of the overflow. They shall also include observed environmental impacts from the overflow; actions taken to address the overflow; and, the ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary).*

*Overflows that endanger health or the environment shall be orally reported to EPA at (214) 665- 6595, Pueblo of Taos at (575) 751-4601 and NMED Surface Water Quality Bureau at (505) 827- 0187, within 12 hours from the time the permittee becomes aware of the circumstance. A written report of overflows that endanger health or the environment shall be provided to EPA, Pueblo of Taos, and NMED Surface Water Quality Bureau within 5 days of the time the permittee becomes aware of the circumstance.*

**Findings for Effluent / Receiving Waters**

The last Compliance Evaluation Inspection by NMED on July 22, 2014, a review of the Discharge Monitoring Reports since that date show the facility has reported no effluent exceedences from the outfall of the treatment plant. The discharge pollutant concentrations from the wastewater treatment plant have been within permit limits.

The permittee reported a sanitary sewer overflow occurred June 15, 2015 as a result of damage to the collection system by a contractor working in the area. According to the report, most of the raw sewage was contained; however it was assumed that some unknown amount reached the Rio Hondo. There was no sampling data of the sewer overflow that reached the river. It is unlikely the spill of raw sewage could meet the permit effluent limits. This incident is the reason for the Marginal rating for this section.

### **Flow Measurement**

Overall Rating For Flow Measurement (Marginal)

### **Permit Requirements for Flow Measurement**

The permit requires in Part III.C.

#### **6. FLOW MEASUREMENTS**

*Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.*

### **Findings for Flow Measurement**

Overall Rating For Self Monitoring (Marginal)

There is no access to a backup staff gauge to check flow readings taken by the ultrasonic flow meter. According to operators the ultrasonic meter was last calibrated in 2014. Calibrations should be done yearly. This is the reason for the Marginal rating.

### **Permit Requirements for Self Monitoring**

Overall Rating For Self Monitoring (Satisfactory)

### **Laboratory**

Overall Rating For Laboratory (Satisfactory)

### **Operation and Maintenance**

Overall Rating For Operation and Maintenance (Satisfactory)

### **Permit Requirements For Operation and Maintenance**

The permit requires in Part III. 3. PROPER OPERATION AND MAINTENANCE

*b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.*

### **Findings For Operation and Maintenance**

1. Adequate Operational Staff. As part of the inspection operations at the WWTP are observed including the number of operators present and what duties they may be required to perform. It was observed the staff is responsible for not only wastewater but also drinking water and distribution, sewer systems, meter reading, onsite laboratory analysis as well as plant operations and records and reporting. Operators indicated the need for assistance with “paper work” the administrative portion of plant operations.

### **Combined Sewer Overflow / Sanitary Sewer Overflow**

Overall Rating for Combined Sewer Overflow/Sanitary Sewer Overflow (Marginal)

### **Permit Requirements for Combined Sewer Overflow / Sanitary Sewer Overflow**

The permit requires in Part III. 3. PROPER OPERATION AND MAINTENANCE

*a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and*

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*appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.*

**Findings for Combined Sewer Overflow / Sanitary Sewer Overflow**

1. The permittee reported a sanitary sewer overflow occurred June 15, 2015 as a result of damage to the collection system by a contractor working in the area. According to the report, most of the raw sewage was contained; however it was assumed that some unknown amount reached the Rio Hondo. There was no sampling data of the sewer overflow that reached the river. It is unlikely the spill of raw sewage could meet the permit effluent limits.

As noted above in the section for Effluent and Receiving Waters, this incident adversely affected the rating for that portion of the evaluation as well.

**Sludge Disposal**

Overall Rating For Sludge Disposal (Satisfactory)

NMED/SWQB  
Official Photograph Log  
Photo # 1

Photographer: Google Earth

Date: Unknown

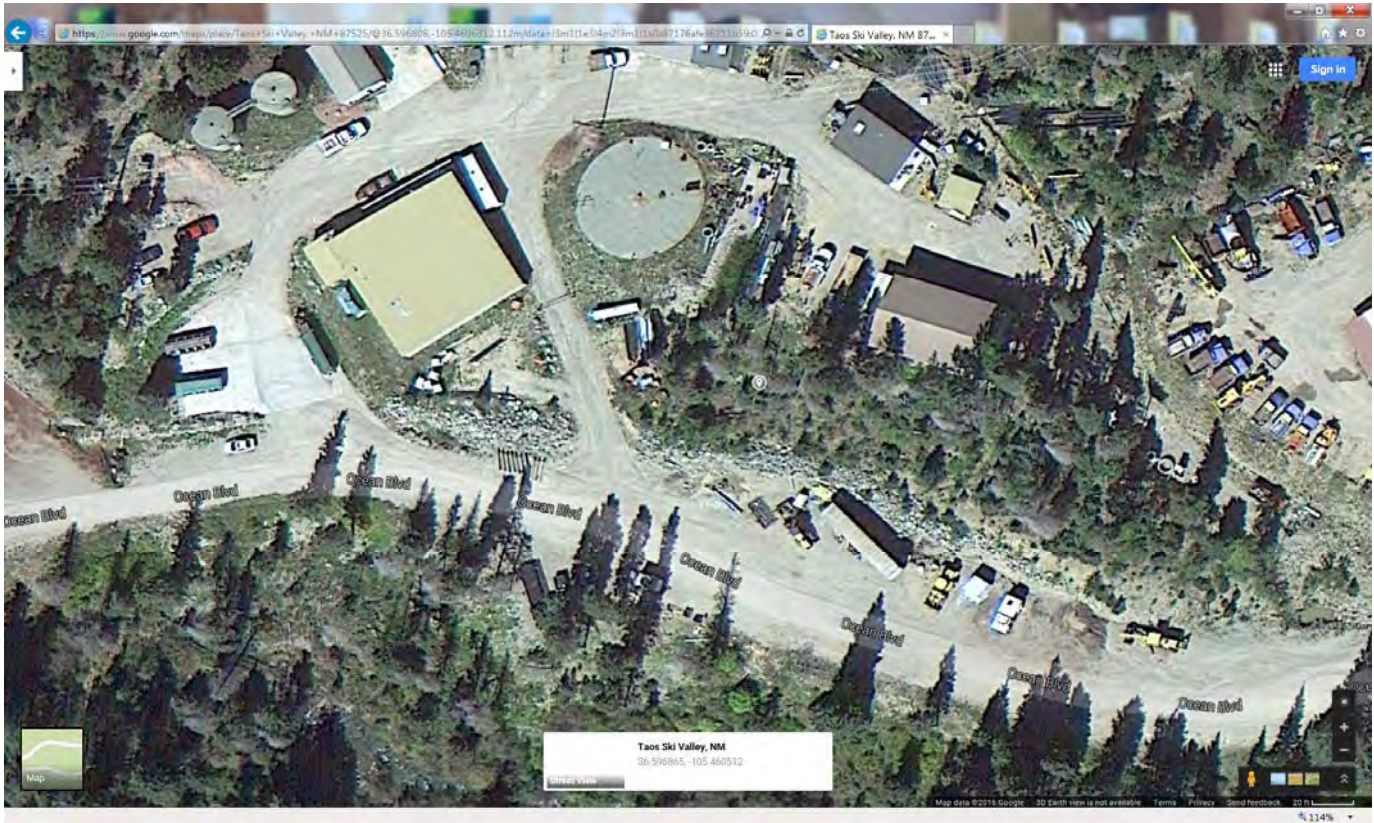
Time: Unknown

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Aerial View of the WWTP . The majority of the treatment works are in the enclosed buildings



NMED/SWQB  
Official Photograph Log  
Photo # 2

Photographer: Google Earth

Date: Unknown

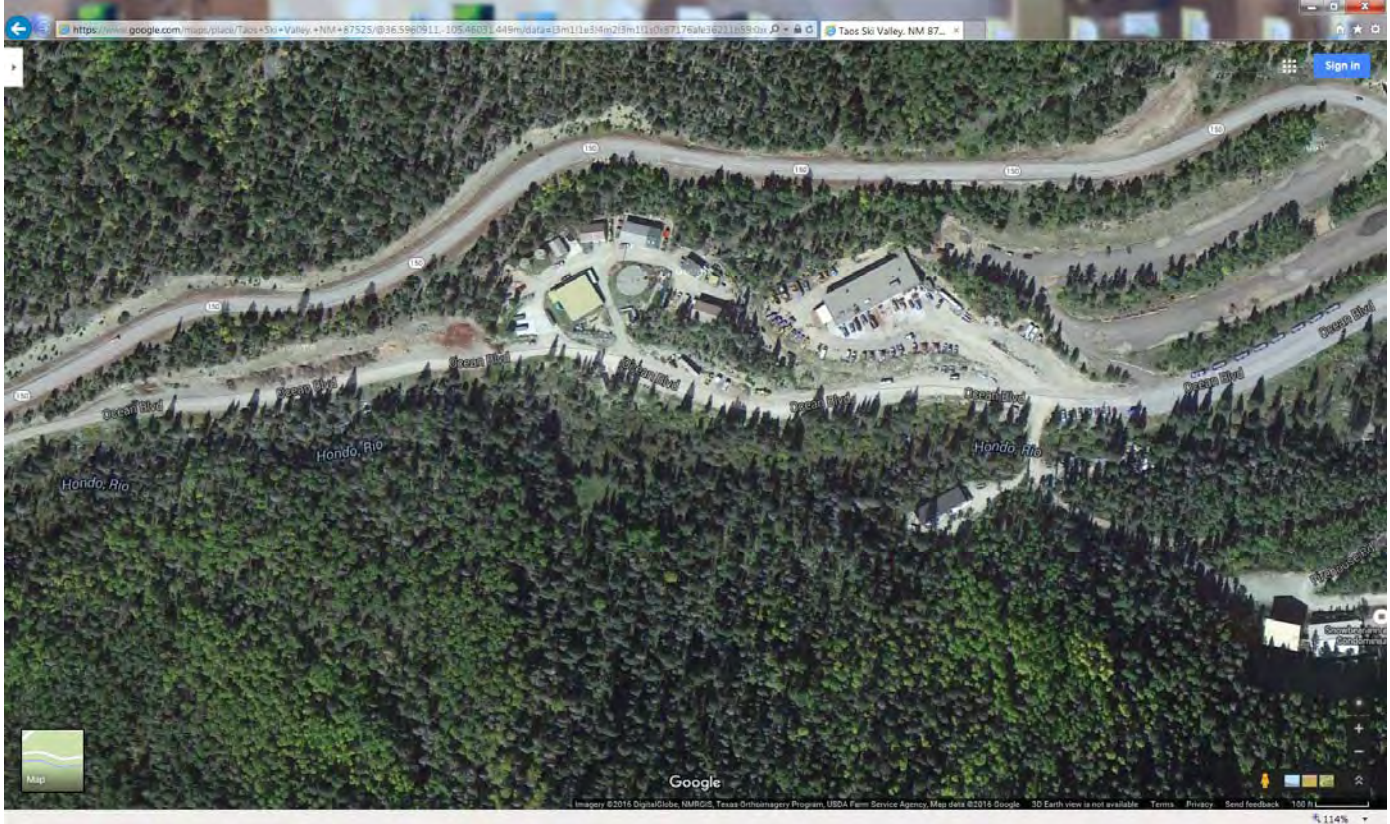
Time: Unknown

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Aerial View of the WWTP and proximity to the Rio Hondo.



NMED/SWQB  
Official Photograph Log  
Photo # 3

Photographer: Google Earth

Date: Unknown

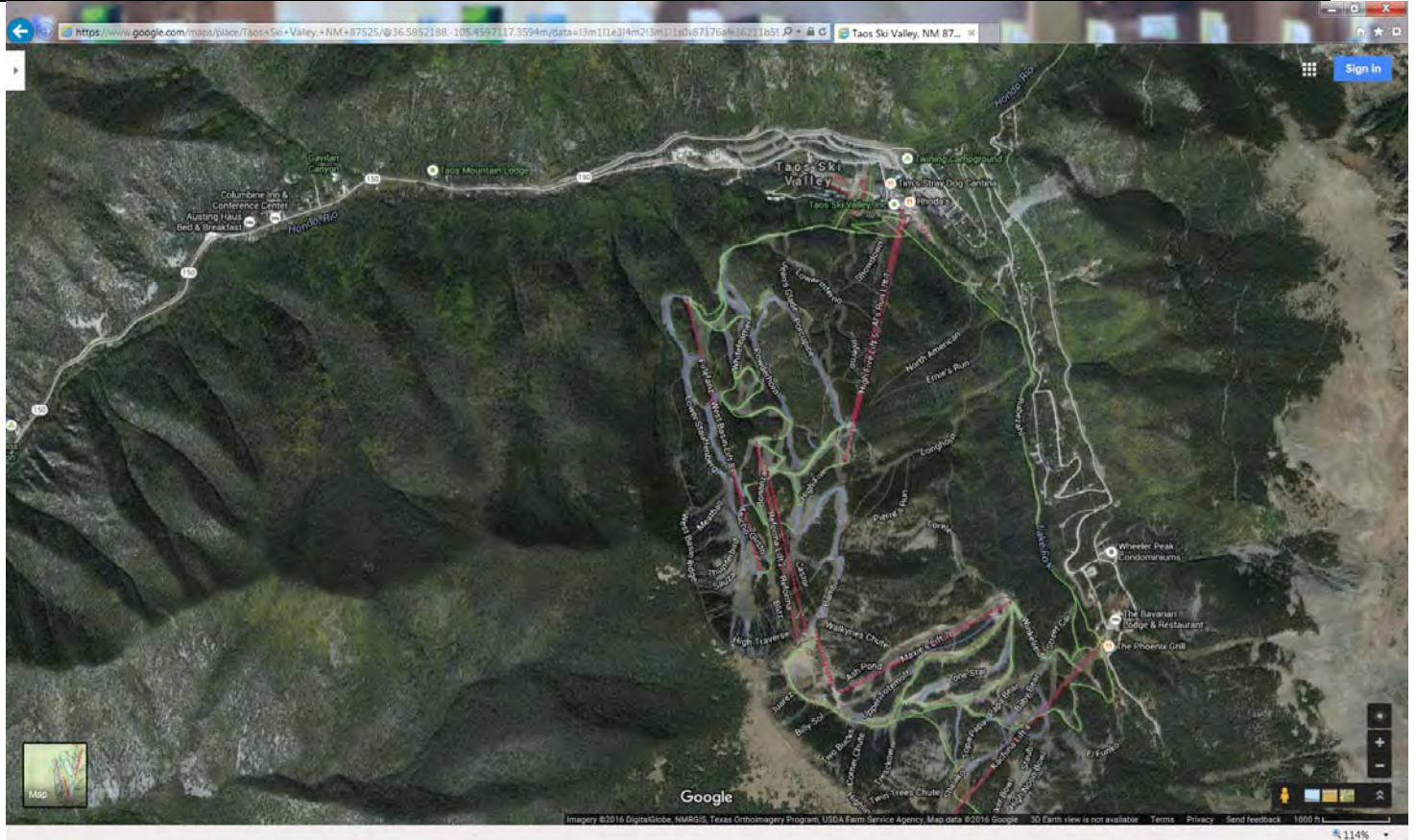
Time: Unknown

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Aerial View of the WWTP and service area up the mountain. The highest lift station is at the Bavarian Lodge.



**NMED/SWQB  
Official Photograph Log  
Photo # 4**

Photographer: B. Cooney

Date: February 11, 2016

Time: 12:58 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Headworks Grit and Solids removal system. Solids are bagged and disposed of at the Taos Landfill following the paint filter test.



**NMED/SWQB  
Official Photograph Log  
Photo # 5**

Photographer: B. Cooney

Date: February 11, 2016

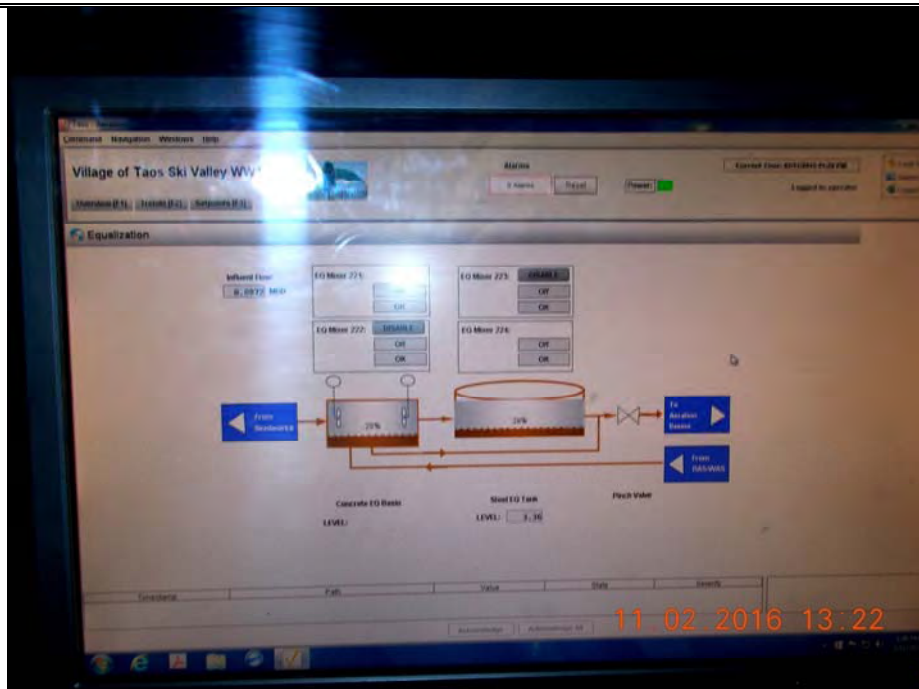
Time: 13:22 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: SCADA process and operations system. The system has a call out alarm in the event problem arise at night when no one is at the plant.



NMED/SWQB  
Official Photograph Log  
Photo #6

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:14 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Dried and processes sludge is carried by a conveyor belt and deposited either in a dump truck or on the cement pad sloped to prevent run off. However, trackout can carry solids to the bare earth beyond the cement pad. Final disposal is at the Taos County Landfill.



**NMED/SWQB  
Official Photograph Log  
Photo #7**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:29 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Town of Taos Ski Valley Wastewater Treatment Plant  
Location:

Subject: Activation Basin 1 (AB1) of the activated sludge process is where the Poly Aluminum Chloride is added for Total Phosphorous removal and where pH adjustment is made to maintain at 7.6 su, with soda ash.



**NMED/SWQB  
Official Photograph Log  
Photo # 8**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:35 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: The two secondary clarifiers are 12 feet deep and the sludge blanket was 3.2 feet and 4.0 deep at the time of the inspection. Both clarifiers have slightly uneven weirs though there was no evidence of excessive solids overtopping them.



**NMED/SWQB  
Official Photograph Log  
Photo # 9**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:36 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Wastewater from the secondary clarifiers is pumped to two pressure polishing filters which run parallel. These are varying head filters and are backwashed at 10 psi differential. Filter media in both of these units consists of anthracite coal and sand. Following the pressure filters is inline UV disinfection.



**NMED/SWQB  
Official Photograph Log  
Photo # 10**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:39 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Effluent water then enters a flow measuring unit consisting of a square weir box which includes a 45° V-notch weir with a staff gauge. The staff gauge, affixed to the side of the square weir box was not easily visible. A secondary ultrasonic flow measuring device is used for reporting purposes. The ultrasonic flow meter gives both an instant flow and totalized flow reading.



**NMED/SWQB  
Official Photograph Log  
Photo # 11& 12**

Photographer: B. Cooney

Date: February 11, 2016

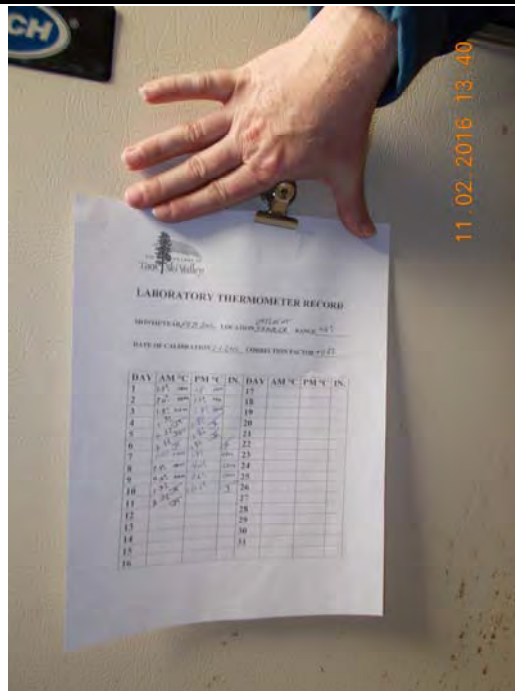
Time: 13: 41 and 13:40 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Effluent compost samples collected by an ISCO auto-sampler. The temperature is taken daily and logged on the sheet on the door of the unit. There is an internal sensor and a second thermometer. The second thermometer should be checked yearly against a calibrated thermometer and any correction should be noted.



**NMED/SWQB  
Official Photograph Log  
Photo # 13**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:52 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: pH buffer are labeled and the date received is written on the bottles. The bottles stored in a cabinet and used before the expiration date.



**NMED/SWQB  
Official Photograph Log  
Photo #14**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:49 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Laboratory bench with DO meter. The laboratory though clean, is very small and there is little room to work.



**NMED/SWQB  
Official Photograph Log  
Photo # 15**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13: 54 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: The laboratory scale used for Total Suspended Solids analysis was most recently calibrated August 1, 2015.



**NMED/SWQB  
Official Photograph Log  
Photo # 16**

Photographer: B. Cooney

Date: February 11, 2016

Time: 13:12 Hours

City/County: Town of Taos Ski Valley / Taos

State: New Mexico

Location: Town of Taos Ski Valley Wastewater Treatment Plant

Subject: Above ground sludge holding tanks in the background.

